

IN THE CLAIMS

This listing of the claim will replace all prior versions and listings of claim in the present application.

Listing of Claims

1. (currently amended)A database system comprising:

a master database to be updated;

a replica for storing a duplicate of said master database;

a preferential order information memory unit for holding preferential order information indicating a preferred order of updating either one of a specific database table, preferential table columns and preferential keys of a column with respect to update data of said master database on said replica,

wherein said preferred order indicates a predefined order of updating particular update data having a higher preferential order prior to update data having a lower preferential order;

an allocation unit for reading said update data and extracting said update data according to said preferential order information in such a manner that the update data with higher preferential order is extracted earlier than the update data with lower preferential order; and

a management unit for updating said replica with said update data in the extracted order.

2. (currently amended)A database system comprising:

a master database to be updated;

a replica for storing a duplicate of said master database;

a preferential order acquiring unit for receiving preferential order information indicating a preferred order of updating preferential table columns of said master database to be applied when update data of said master database is reflected on said replica and for acquiring said preferential order information,

wherein said preferred order indicates a predefined order of updating particular update data having a higher preferential order prior to update data having a lower preferential order;

an allocation unit for reading said update data and, extracting said update data according to said preferential order information in such a manner that the update data with higher preferential order of said table columns is extracted earlier than the update data with lower preferential order of said table columns; and

a management unit for updating said replica with said update data in the extracted order.

3. (currently amended)A database system comprising:

a master database to be updated;

a replica for storing the duplicate of said master database;

a history acquiring unit for recording use history of said replica; and

an updating unit for receiving update data of said master database and updating said replica with preference based on a preferred order of updating of table columns of said master database corresponding to said use history,

wherein said preferred order indicates a predefined order of updating particular update data having a higher preferential order prior to updating update data having a lower preferential order.

4. (currently amended) A database system comprising:
a master database to be updated;
a replica for storing a duplicate of said master database;
a first control unit, provided in said master database side, for extracting update data according to stored preferential order information indicating a preferred order of updating a specific database table of said master database of said update data to be updated,

wherein said preferred order indicates a predefined order of updating particular update data having a higher preferential order prior to update data having a lower preferential order.

wherein said first control unit extracts update data in such a manner that the update data with higher preferential order of said database table is extracted earlier than the update data with lower preferential order of said database table and ~~for transferring~~transfers said update data to a communication means; and

a second control unit, provided in said replica side, for receiving said update data transferred from said communication means, for extracting from said update data according to stored preferential order information of table columns of said database table to be updated,

wherein said second control unit extracts update data in such a manner that the update data with higher preferential order of said table columns is extracted earlier than the update data with lower preferential order of said table columns, and for updating updates said replica with said update data based on the extracted order data.

5. (currently amended) A database system comprising:
a master database to be updated;
a replica for storing a duplicate of said master database;
a first control unit, provided in said master database, for transferring update data to a communication means; and
a second control unit, provided in said replica side, for receiving said update data transferred from said communication means, extracting from said update data according to stored preferential order information indicating a preferred order of updating of preferential table columns of said master database of said update data to be updated,

wherein said preferred order indicates a predefined order of updating particular update data having a higher preferential order prior to update data having a lower preferential order.

wherein said second control unit extracts update data in such a manner that the update data with higher preferential order of said table columns is extracted earlier than the update data with lower preferential order of said table columns, and for updating said replica with said update data based on the extracted order.

6. (currently amended)A database system comprising:

a master database to be updated;

a plurality of replicas for storing a duplicate of said master database;

a first control unit, provided in said master database side, for transferring update data in a selected order; and

a second control unit, provided in each of said replica side, for receiving said update data transferred, for extracting said update data according to stored preferential order information indicating a preferred order of updating of preferential keys of a column of a database table of said update data to be updated,

wherein said preferred order indicates a predefined order of updating particular update data having a higher preferential order prior to update data having a lower preferential order,

wherein said second control unit extracts update data in such a manner that the update data with higher preferential order of said keys is extracted earlier than the update data with lower preferential order of said keys, and for updating said replica with said update data based on the extracted order.

7. (currently amended)A database system comprising:

a master database for storing a plurality of types of data;

a master database management unit for updating said master database in an order of occurrence of an update request according to said data update request to said master database;

an update log file for storing update log of said master database in the order of updating of said master database;

an update log reading unit for reading ~~eatout~~ said update log from said log file;

a data allocation unit for extracting update data in an order according to preferential order information indicating a preferred order of updating of preferential table columns of said master database of said update data in said update log read by said update log reading unit,

wherein said preferred order indicates a predefined order of updating particular update data having a higher preferential order prior to update data having a lower preferential order;

a replica for storing the duplicate of data stored in said master database; and

a replica database management unit for writing said update data extracted by means of said data allocation unit in said replica in said order of extraction.

8. (currently amended) A method for forming a replica of a database in a system having a master database to be updated and a replica thereof, the method comprising steps of:

holding preferential order information indicating a preferred order of updating of preferential table columns of said master database that are to be applied when update data of said master database is reflected on said replica,

wherein said preferred order indicates a predefined order of updating particular update data having a higher preferential order prior to updating update data having a lower preferential order;

reading said update data;

extracting said update data according to said preferential order information in such a manner that the update data with higher preferential order of said table columns is extracted earlier than the update data with lower preferential order of said table columns; and

updating said replica with said update data in the extracted order.

9. (currently amended)A method for forming a replica of a database in a system having a master database to be updated and a replica thereof, the method comprising steps of:

extracting update data according to stored preferential order information indicating a preferred order of updating a specific database table of said master database to be updated on said master database side,

wherein said preferred order indicates a predefined order of updating particular update data having a higher preferential order prior to update data having a lower preferential order.

wherein said extracting update data step is performed in such a manner that the update data with higher preferential order of said database table is extracted earlier than the update data with lower preferential order of said database table;

transferring said update data to a communication means in the extracted order;

receiving said update data transferred from the communication means on said replica side;

extracting said update data according to stored preferential order information indicating a preferred order of update of preferential keys of a column of said database table to be updated,

wherein said extracting update data is performed in such a manner that the update data with higher preferential order of said keys is extracted earlier than the update data with lower preferential order of said keys; and
updating said replica thereby.

10. (currently amended)A method for forming a replica of a database in a system having a master database to be updated and a replica thereof, the method comprising steps of:

storing preferential keys of a column of a table within said master database of update data of said master database that is to be reflected preferentially according to a preferred order on said replica,

wherein said preferred order indicates a predefined order of updating particular update data having a higher preferential order prior to update data having a lower preferential order;

reading said update data;

extracting said update data according to stored preferential order of update of said keys in such a manner that the update data with higher preferential order of said keys is extracted earlier than the update data with lower preferential order of said keys; and

updating said replica with said update data in the extracted order

11. (currently amended)A computer-readable recording medium having a recorded program for forming a replica of a master database to be updated, the program comprising steps of:

holding preferential order information indicating a preferred order of updating of preferential table columns of said master database that are to be applied when update data of said master data is reflected on said replica,

wherein said preferred order indicates a predefined order of updating particular update data having a higher preferential order prior to update data having a lower preferential order;

reading said update data;

extracting said update data according to said preferential order information in such a manner that the update data with higher preferential order of said table columns is extracted earlier than the update data with lower preferential order of said table columns; and

updating said replica with said update data in the extracted order.